

Radiation Length Scan of iTPC devTX Geometry

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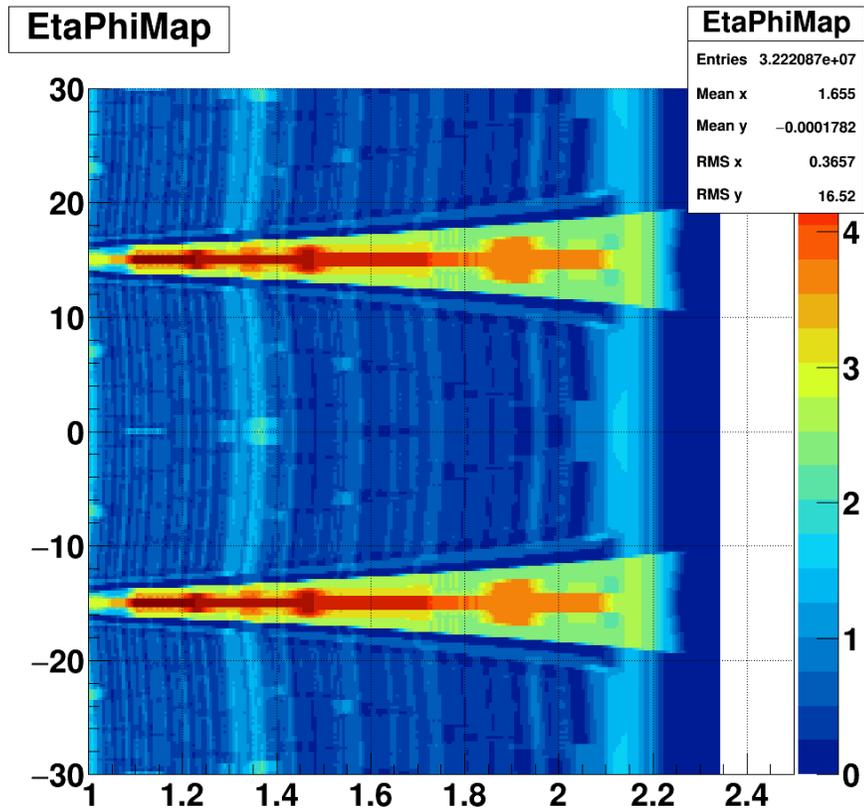
12/8/2014

Overview

- Previously :
 - Revision of GEANT and TGeo designs checked
 - Masses cross-checked with available measurements and measurements done by Alexei
 - Necessary changes applied to geometry (RDO mass changed)
 - Right now we have good agreement between “soft” and “hard” geometries
 - Details at : <http://www.star.bnl.gov/~iraklic/iTPC/Geometry/>
- Now:
 - devTX geometry radiation length scan performed

Radiation Length Scans

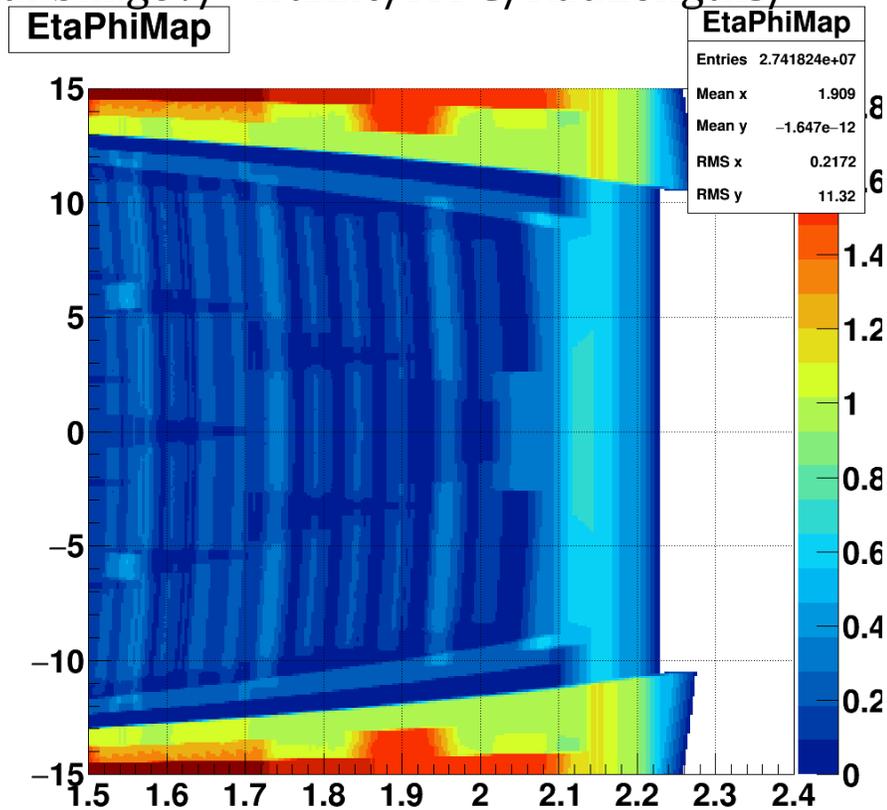
- Scans are done from the center of the detector (0,0,0) along the (η, φ) direction.



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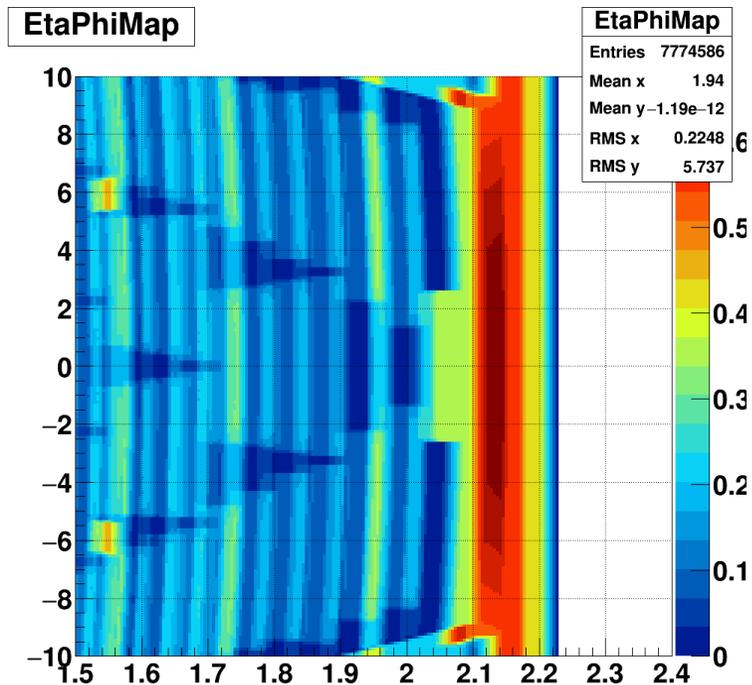
Radiation Length Scans

- Zooming in to one sector only with $1.5 < \eta < 2.4$
- Details at : <http://www.star.bnl.gov/~iraklic/iTPC/RadLengths/>

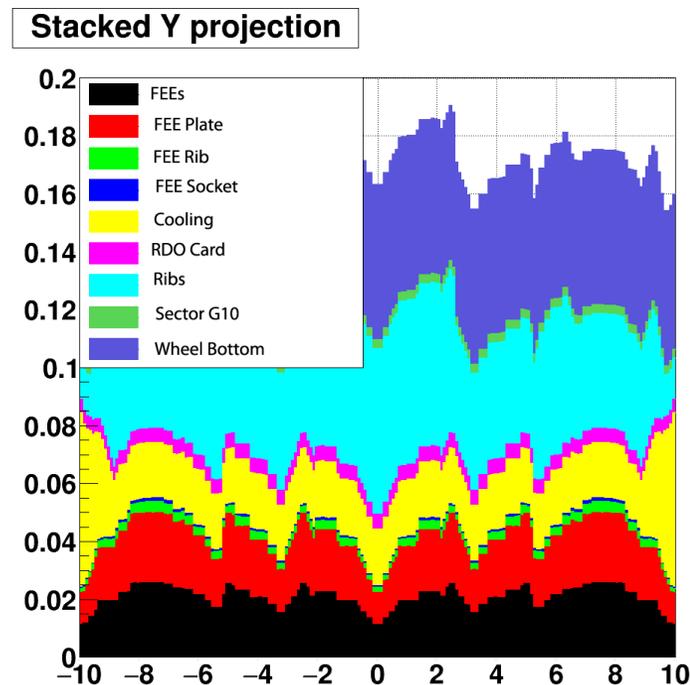


Radiation Length Scans

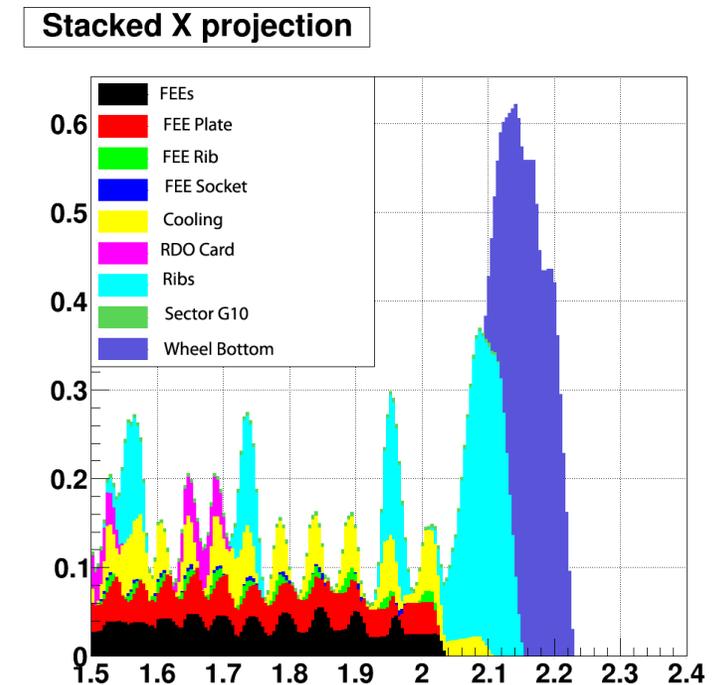
- Zooming in further to remove the material on the edges
- Details at : <http://www.star.bnl.gov/~iraklic/iTPC/RadLengths/10/>



Sun Dec 7 22:11:42 2014



Mon Dec 8 06:41:32 2014



Mon Dec 8 06:41:23 2014